


# MENG ZHANG

Human Factors Engineer

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Berlin, Germany

## EXPERIENCE




Senior Data Analyst

01/2025 - 04/2025

Berlin, Germany

GETEC Group

- Built automated reporting pipelines, improving data availability and reducing manual reporting time
- Predicted demand trends



Research Associate


07/2016 - 09/2024

Berlin, Germany

German Aerospace Center, DLR

Institute of Transportation Systems

- Analyzed interactions between road users and developed models to predict intentions and risks using both real-world and simulated driving data
- Assessed drivers' subjective feeling of safety through analysis of physiological signals
- Led empirical studies: conceptualization, experimental design, data collection, and statistical analysis
- Classified driving scenarios and compared behaviors between autonomous and human driving
- Published research and presented findings in academic/industry settings
- Participated in national and international collaborative projects in transportation systems and human factors
- Supervised interns and master's theses
- Pursued a PhD while working full-time



Intern and Research Assistant

10/2014 - 12/2015


Braunschweig, Germany

German Aerospace Center, DLR

Institute of Transportation Systems

- Analyzed driver states including attention and fatigue
- Developed ETL pipelines for multimodal transportation data, integrating trajectories, eye-tracking, ECG, and skin conductance

## EDUCATION




Psychology Dr. rer. nat.

04/2019 - 11/2023

Braunschweig, Germany

Technical University of Braunschweig

- Supported appraisal theory of emotion and advocated for multidimensional and multimodal emotion measurement
- Induced and measured drivers' fear under simulated driving conditions
- Application scenario: passive human-machine interaction




Human Factors M.Sc

04/2012 - 04/2016

Berlin, Germany

Technical University of Berlin

- Analyzed emotional states based on facial expressions and physiological signals
- Applied machine learning methods (supervised and unsupervised)
- Cognitive ergonomics, Biopsychology, and Usability Engineering



Psychology B.Sc

09/2006 - 07/2010

Shanghai, China

East China Normal University

- Experimental Psychology, Cognitive Psychology, Statistics, Mathematics

## SKILLS

RESEARCH

User Study · Experimental Design · Survey · Statistics · Machine Learning · ECG/EDA · Eye-Tracking · FACS · Trajectory analysis

TOOLS

R · RStudio · Python · VS Code · PowerBI · Confluence · Miro · GitLab

Collaboration

Project Management · Cross-functional Teamwork

LANGUAGES

German

Proficient

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English

Proficient

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Chinese

Native

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## PROJECTS

STADT:up

01/2023 - 09/2024

Germany

Trajectory analysis of road users' cooperation in complex urban scenarios (e.g., in cases of rule violations)

L3Pilot

01/2020 - 10/2022

Europe

Comparison of driving behavior between human drivers and autonomous vehicles at roundabouts

PEGASUS

07/2016 - 01/2019

Germany

Investigation of human performance through simulation driving tests to use as a benchmark for automated driving functions